SONY KVM2141

MODEL

OWNER'S MANUAL

SPECIFICATIONS

MODEL	Television System	Channel Coverage	Color system
OIRT	B/G/H, D/K	**B/G/H** VHF: E02-E12, UHF: E21-E69 CABLE TV : S01-S20 **D/K** VHF : R01-R12, UHF: R21-R69 CABLE TV : S01-S20	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
French	B/G/H, L	**B/G/H** VHF: E2-E12, UHF E21-E69 CABLE TV : S01-S21 **L** VHF : F02-F10, UHF F21-F69 CABLE TV : E-Q	PAL, SECAM
UK	I	**I** UHF B21-B69	PAL
AEP	B/G/H	**B/G/H** VHF : E02-E12, UHF : E21-E69 CABLE TV : S01-S20	PAL, SECAM
Spanish	B/G/H	**B/G/H** VHF : E02-E121, UHF : E21-E69	PAL
Italian	CCIR {B/G/H}	**B/G/H** CANALI UHF : 21-69 COMPRESSO CANALE C. CANALI VHF : E2-E12, S1-S20	PAL

MODEL	OIRT	AEP	Italian	French	UK	Spanish
Power Consumption	73Wh	73Wh	73.5Wh	87Wh	99W	73Wh

Picture tube	Hi Black Trinitron tube Approx. 55 cm (21 inches) (Approx. 51 cm picture measured diagonally) 100° degree deflection
Inputs	21-pin connector: CENELEC standard
Outputs	Headphones jack: minijack 21-pin connector: TV output
Sound output	5W (Music)
Dimensions	Approx. 513x487x475 mm (w/h/d)
Weight	Approx. 24 kg

[RM-841]

Remote control system infrared control

Power requirements	1.5V dc 1 battery IEC designation R6 (size AA)
Dimensions	Approx. 48x200.5x1[illegible] mm (w/h/d)
Weight	Approx. 100g including batteries
Supplied accessories	RM-841 Remote Commander (1) IEC designation R6 battery(1)

Design and specifications are subject to change without notice.

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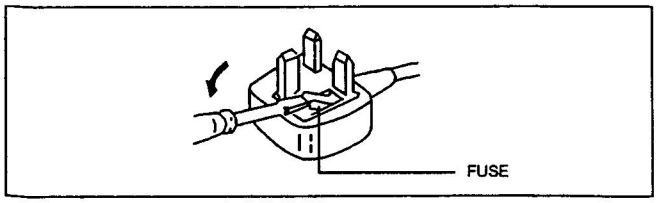
WARNING (UK MODELS ONLY)

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 AMP capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, ie one that carries the ASTA mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.
When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



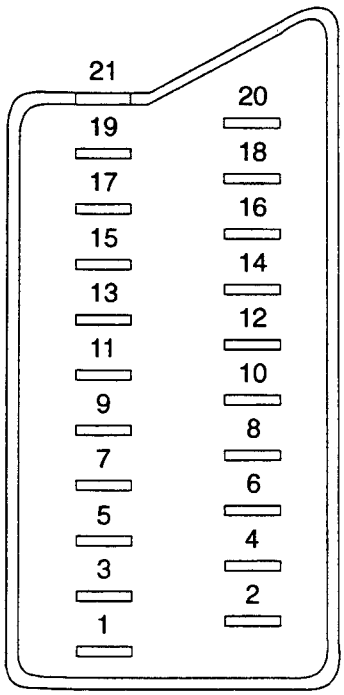
CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

SAFETY RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED WITH ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

1-1. 21 PIN CONNECTOR



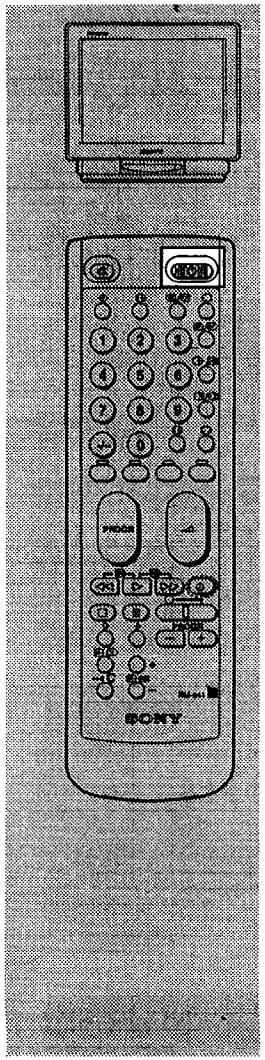
21 pin connector (1 ⊖)

Pin No		Signal	Signal level
1	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	○	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	○	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	○	Ground (audio)	
5	○	Ground (blue)	
6	○	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	○	Blue input	0.7V±3dB, 75ohms, positive
8	○	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	○	Ground (green)	
10	○	Open	
11	○	Green	Green signal:0.7V±3dB. 75ohms, positive
12	○	Open	
13	○	Ground(red)	
14	●	Ground (blanking)	
15	○	Red input	0.7V±3dB, 75ohms, positive
	—	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	○	Ground (video output)	
18	○	Ground (video input)	
19	○	Video output	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
20	○	Video input	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
	—	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(–3, +10dB)
21	○	Common ground (plug, shield)	

○ connected ● unconnected (open) * At 20 Hz—20kHz

Instructions shown here are partial excerpts from the instruction Manual.
The pages of the Instruction Manual are included here in their original state.

1-2. Switching on/off



After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).

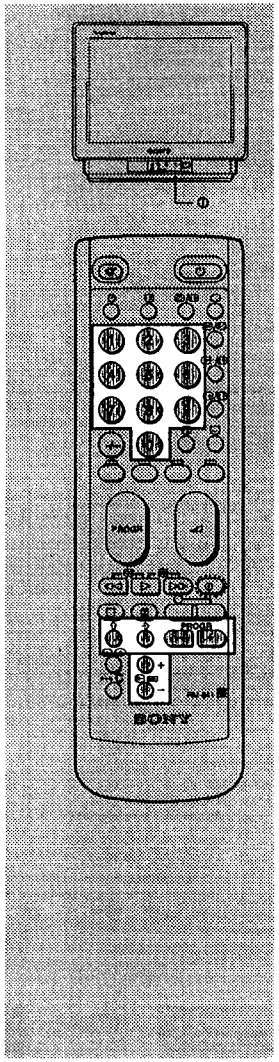
How to turn the TV on

Action	Result
Press ⏻ on the TV.	The TV will turn on. **Note:** If the screen remains blank, the TV may be in the standby mode. Press ▭ on the commander to switch it on.

How to turn the TV off

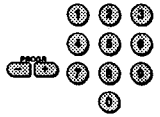
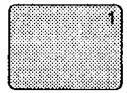
A Temporarily	
Press ⏻ to enter standby mode.	The TV will be in standby. To return to the TV mode press ▭
B Completely	
Press ⏻ on the TV.	The TV will turn off.

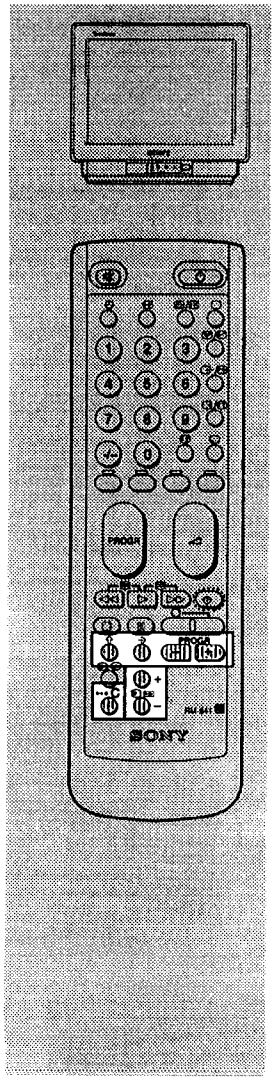
1-3. Presetting



After having installed the TV, you now need to preset TV channels. Up to 60 programme positions are at your disposal. For channel presetting use the buttons with the red symbols on the Remote Commander.

Automatic presetting of channels

Action	Result
1 Press both the ♦ SHIFT button and the ⇳ PRESET button simultaneously.	You are now in the preset mode. The programme number flashes.
2 Press either the number buttons or PROGR +/– to select the programme number on which you want to preset the channel.  **Note:** In case of two digit numbers, first press –/--, then the two numbers.	The selected programme number will be indicated.
3 Press both the ♦ SHIFT button and the ▦ + or – button repeatedly, until the desired channel is tuned in.	The scale with the frequency band changes.
4 Repeat steps 3 and 4 for all other channels.	
5 Press both the ♦ SHIFT and the ⇳ PRESET buttons simultaneously to store the channels.	All channels are now stored. The programme number stops flashing. 



How to skip programme positions

Since you have 60 programmes at your disposal, you may want to skip vacant programme positions, that means that they are skipped when you press the PROGR +/– buttons.

Action	Result
1 Press both the ♦ SHIFT button and the ⊲ PRESET button simultaneously.	You are now in preset mode, the programme position flashes.
2 Use PROGR + or – to select the programme position you want to skip. PROGR – +	The selected programme position appears.
3 Press both the ♦ SHIFT button and the button C simultaneously. C	
4 Press both the♦ SHIFT button and the ⊲ PRESET button simultaneously.	The programme position is now skipped. You are back in TV mode.

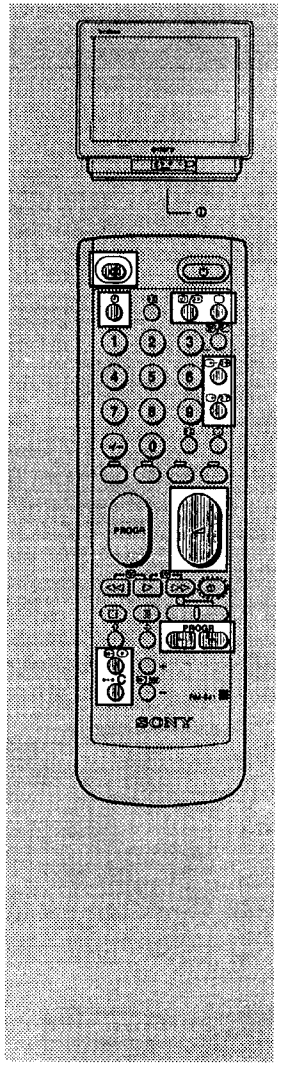
How to fine tune a channel manually

If the reception of a stored channel is not satisfactory, you can fine tune the channel manually.

Action	Result
Press both the ♦ SHIFT button and the + or – button simultaneously intil the reception is good. + –	The channel is now fine tuned.

Note: By pressing the respective programme number the automatic fine tuning will be restored.

1-4. TV operation



This section shows you how to use the convenient features available for operating the TV.

How to select programmes

Action	Result
Press PROGR +/– or the respective number button on the Remote Commander. In case of two digit numbers first press –/–– and then the two respective number buttons.	The selected programme is displayed.
On the set: Press the + or – button for programme selection.	

How to adjust the volume

Action	Result
Press ◿ + or –.	The ◿ symbol and the level indicator are displayed on the screen. The volume is adjusted accordingly.
Muting of the sound	
Press button ⊲	The sound is switched off. Press the button again to restore the sound.
On the set: Press button ⊟ repeatedly in order to select the desired item, then adjust with the + or – button.	

How to adjust the picture

Action	Result
1 Press button ⊟ repeatedly, until the desired item is displayed (◑ contrast, ◕ colour intensity, ☼ brightness).	The symbol and the respective bar display are displayed.
2 Press button + or –.	The selected picture item is adjusted accordingly.
Press button ⊟ repeatedly in order to select the desired item, then adjust with the + or – button.	

To return to factory-set levels
Press the →·← button.

Other functions

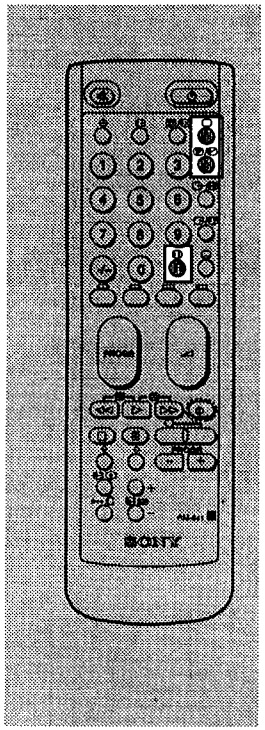
On-screen display
Press the ⊡ button to display the programme number on the screen and press the button a second time to make it disappear.

Selecting the signal of a connected device
Press the ⊡→ button to receive the signal of the device (e.g. a VTR) connected at the 21-pin connector (rear of the set). Press the ▢ button to return to the TV mode (see also page 11).

Time function
Press ⏱ to request the time. Press again to cancel the request (only if teletext is broadcast).

Sleep Timer
Press the ⏲ button repeatedly until the required time period is displayed on the screen (30, 60, 90 minutes or 0 for cancelling the request). In this way you can select the time period after which the set switches itself automatically into standby-mode.

1-5. Teletext Operation



TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the Remote Commander.

How to view the teletext

Action	Result
1 Select the channel which carries the teletext service you wish to view.	The channel changes on the screen.
2 Press ▣/▣.	The teletext service appears.
3 Input three digits for the page number using the number buttons. **Note** If you make a mistake, type in any three digits, then re-enter the correct page number.	The numbers are entered on the screen. The requested page will appear in a few seconds.

To return to the TV mode:
Press ▢.

To change the teletext channels:
First press ▢ to return to TV mode, then repeat steps 1 to 3.

Note
If the signal of the TV channel is weak, teletext errors may often occur.
The ▢ button has no function on this set.

How to use the Advanced Features of Teletext

How	Action	Result (on-screen display)
Request the index page.	Press ▣ (INDEX).	The index page appears.
Access the next or preceding page.	Press ▣ (PAGE +) or ▣ (PAGE –).	The next or preceding page appears.

How to	Action	Result
Superimpose the teletext display on the TV programme.	Press ▣/▣ once if you are in text mode, or press ▣/▣ twice if in TV mode. To return to the normal teletext display press ▣/▣ again.	The teletext displays are superimposed on the TV programmes.
Prevent a teletext page from being updated or changed.	Press ▣ (HOLD). To resume normal teletext reception, press ▣/▣ (TEXT/MIX).	The HOLD symbol ▣ appears on the screen and the chosen sub-page is held until you cancel.
Enlarge the teletext display.	Press ▣ once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.	The upper half is enlarged.
Reveal concealed information (e.g. answers to a quiz).	Press ▣ (REVEAL). Press again to conceal the information.	The information is revealed.
Watch the TV programme while waiting for a requested page to be displayed.	1. Request a new page.	The numbers are entered.
	2. Press ▣ (TEXT CL).	The TV programme is displayed, and the requested page number and other teletext data appear at the top of the screen.
	3. When the requested page has been captured, the page number remains and the other data disappears.	
	4. Press ▣ to view this page	The requested page is displayed.

Some of the features may not be available depending on the Teletext service.

How to use the FASTEXT Feature

FASTEXT feature allows you to access pages quickly with one key operation.
When a FASTEXT page is broadcast, a colour coded menu appears at the bottom of the screen. Each coloured prompt corresponds to the four coloured buttons of your Remote Commander.

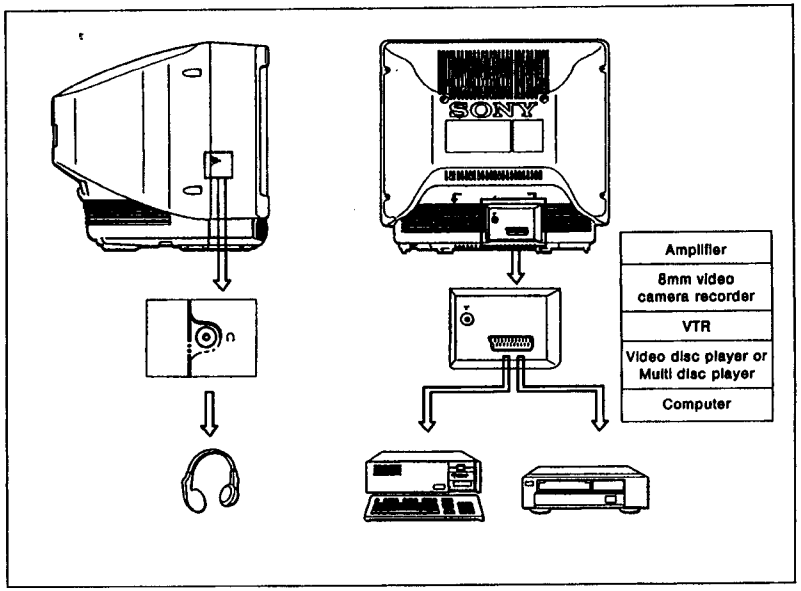
Operation

Action	Result
Press one of the coloured buttons which corresponds to the coloured prompt on the teletext.	The selected teletext page appears.

Note
Correct FASTEXT operation depends on the necessary signals sent from the TV station.
Some TV stations may not send signals for the FASTEXT.

1-6.

How to connect additional Audio/video equipment



How to view the Video input signal

Press button ⊖ repeatedly in order to select the desired input mode (⊖ for Audio/video signals from 21-pin EURO connector ⊶). Press button ▢ to return to TV mode.

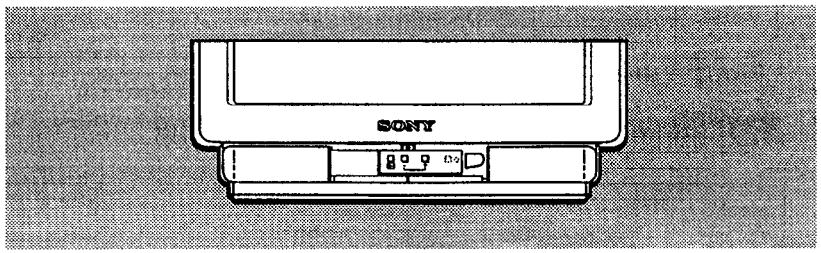
On the set:
Press button ⊜ once, the symbols ▢, ⊖ will appear on the screen, then press the + button to select the desired video input mode. Press ⊜ and + buttons again to return to TV-mode.

Notes
- In case of sound or picture distortions move the VTR away from the TV set.

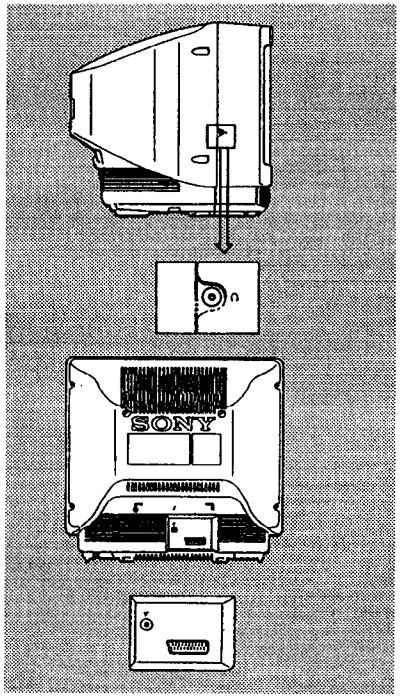
1-7. Additional information

Parts identification

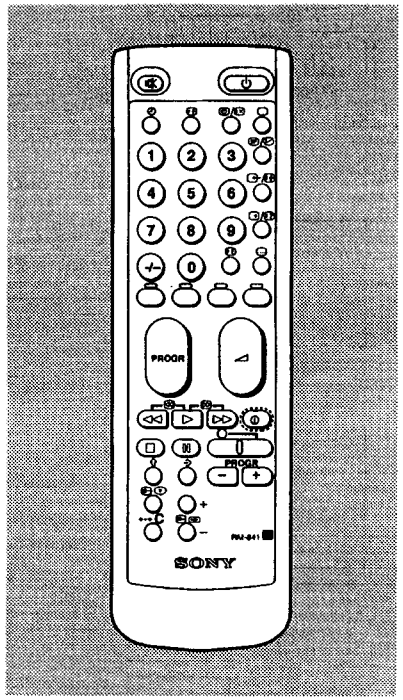
TV Set – Front



TV Set – Rear



Remote Commander



This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV Set

Symbol	Function	Page
⏻	Main power switch	5
⏻	Standby indicator	5
+/-	Programme selector	6
⊜ +/-	Sound and picture adjustment/input selection	8
∩	Headphone jack (mini-jack)	11
⊶	21-pin connector (rear of set)	11
⊤	Aerial socket (rear of set)	4

Remote Commander

Symbol	Function	Page
⏻	Button for switching the TV set into standby mode	5
▢	Used to return to TV-mode from standby and video input modes	5
1-9, 0, -/--	Number buttons – in case of two digit numbers first press button -/-- and then two number buttons	6
PROGR +/-	Programme scanning buttons	6
⊸ and ▲	Preset mode on/off buttons	6
▲	Functions only in combination with other buttons	6, 7
▲ and C	Button for clearing a programme position (in preset mode)	7
▲ and ⊲⊳ +/-	Buttons for manual fine tuning of a channel/presetting	7
🔇	Mute button	8
⊜	Select button for picture adjustment item	8
+/-	Buttons for adjusting picture items	8
→•←	Button for resetting the picture adjustment items to standard	8
◿ +/-	Buttons for adjusting the volume	8
◴	Button for activating the sleep timer	8
⊡	On/off button for onscreen display	8
⊙	Time feature	8
2 ▣ / ◩ ⊠ ⊞ 1 ⊞	Teletext buttons	9, 10
■ ■ ■ ■ ▭ ▭ ▭ ▭	FASTEXT Buttons	10
⊡	Button for selecting the video input mode	11

Note:
Buttons not referred to in this index have no function.

1-8. Additional Information

Troubleshooting

Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press ⏻ on the TV. (If ⏻ indicator is on, press ▢ or the programme number on the Remote Commander). • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻.
Poor or no picture (screen is dark), but sound good	• Adjust ☼, ◑, ● by pressing the + button after selecting with the ⊜ button.
Good picture but no sound	• Press ◿ +. • Disconnect the headphones. • If 🔇 is displayed on the screen, press 🔇.
No colour for colour programmes	• Adjust ● with the + button after selecting with the ⊜ button. • Press →•← on the Remote Commander.
Remote Commander does not function	• REPLACE THE BATTERIES

If you continue to have these problems, have your TV serviced by qualified personnel. Never open the casing yourself.